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APPLICATION NO.	FILING DAT	TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/076,433	02/19/200)2	Michiharu Yamamoto	111996	2303	
25944	7590 08/	7590 08/09/2006		EXAMINER		
	ERRIDGE, PLO	IP, SIKYIN				
P.O. BOX 19928 ALEXANDRIA, VA 22320				ART UNIT	PAPER NUMBER	
				1742	1742	
			DATE MAILED: 08/09/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/076,433	YAMAMOTO ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Sikyin Ip	1742			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - Exte. after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply opened for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[\inf	Responsive to communication(s) filed on 5/09/	′06.				
· —	• • • • • • • • • • • • • • • • • • • •	action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims					
5)□ 6)⊠ 7)□	 4) Claim(s) 1-2,4-17,19-21,23,25-27 and 29 is/are pending in the application. 4a) Of the above claim(s) 2,5-9,11,13-15,17,19-21,23,25-27 and 29 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,4,10,12 and 16 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Applicati	on Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
12)[a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No d in this National Stage			
Attachmen		_				
2) D Notice 3) D Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 11/30/05.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

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DETAILED ACTION

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Double Patenting

The terminal disclaimer filed on May 2, 2005 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of 09/984,039 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Claim Rejections - 35 USC § 103

The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 4, 10, 12, and 16 are rejected under 35 U.S.C. 103(a) as obvious over USP 4599119 to Ikushima et al in view of Nagarjuna et al or acknowledged prior art admission.

Ikushima disclose(s) the features including the claimed Ti-Cu alloy (col. 1, lines 35-58), grain size (col. 1, lines 60-63), hardness, tensile properties, and bending

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properties (Table 4, first 4 samples) except for the claimed electrical conductivity. Ikushima in col. 1, lines 15-18 discloses age-hardened Cu-Ti alloy has excellent electrical conductivity but does not disclose an numerical range of the electrical conductivity. Nagarjuna (abstract) and acknowledged prior art admission ([0008]) disclose electrical conductivity 25% and at least 10% IACS, respectively. Therefore, as shown by Nagarjuna that age-hardened Cu-Ti alloy would have electrical conductivity up to 25%. And electrical conductive materials as disclosed by cited references is required to be at least 10% IACS (See acknowledged prior art admission [0008]).

Response to Arguments

Applicant's arguments filed November 30, 2005 have been fully considered but they are not persuasive.

Applicants' argument in page 2 of instant remarks is noted. But, comparative examples 27 and 28 in instant specification contain many additional elements that excluded by cited references. So they are not the same alloys as disclosed by cited references. Criticality of the claimed Ti range has not be shown by comparative examples 27 and 28 because comparison must be done under identical condition except for the novel features of the invention. In re Brown, 173 USPQ 685 and In re Chapman, 148 USPQ 711. The showing of unexpected results must be occurred over the entire claimed range. In re Clemens, 622 F.2d 1029, 206 USPQ 289, 296 (CCPA 1980). The scope of the showing must be commensurate with the scope of the claims. MPEP § 716.02(d), In re Tiffin, 448 F.2d 791, 792 (Fed. Cir. 1971), In re Coleman, 205 USPQ 1172, In re

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Grasselli, 713 F.2d 731, 743, 218 USPQ 769, 778 (Fed. Cir. 1983), and In re Greenfield, 197 USPQ 227.

Applicants' argument replied upon Hernandez-Santiago publication is noted.

But, there is no evidence the claimed Ti range (2 – 3.5 wt.%) would not be same as 4 wt.% Ti under the same processing conditions.

Applicants' argument with respect to Nagarjuna is noted. But said reference is merely cited to show what is known electrical conductivity in the art of cited references.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

The above rejection relies on the reference(s) for all the teachings expressed in the text(s) of the references and/or one of ordinary skill in the metallurgical art would have reasonably understood or implied from the text(s) of the reference(s). To emphasize certain aspect(s) of the prior art, only specific portion(s) of the text(s) have been pointed out. Each reference as a whole should be reviewed in responding to the rejection, since other sections of the same reference and/or various combination of the cited references may be relied on in future rejection(s) in view of amendment(s).

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All recited limitations in the instant claims have been meet by the rejections as set forth above.

Applicant is reminded that when amendment and/or revision is required, applicant should therefore provide a concise explanation and support with page and line number in the specification for any amendments made to the disclosure. See 37 C.F.R. Part §41.37 (c)(1)(v).

Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Ip whose telephone number is (571) 272-1241. The examiner can normally be reached on Monday to Friday from 5:30 A.M. to 2:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy V. King, can be reached on (571)-272-1244.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SIKYIN IP PRIMARY EXAMINER ART UNIT 1742

S. lp August 06, 2006